

TABLE 1

	Amorphous PES		Block PES		Other PES		Coloring agent	CCA	Wax	External additive				
	Kind	Content (pts.wt)	Kind	Content (pts.wt)	Kind	Content (pts.wt)				Rutile-anatase type titanium oxide	Silica with relatively small size	Silica with relatively large size	Positively-chargeable silica	anatase-type titanium oxide
Example 1	PES-A	80	PES-B	20	-	-	6	1	2	1	1	0.5	-	-
Example 2	PES-A	80	PES-C	20	-	-	6	1	2	1	1	0.5	-	-
Example 3	PES-A	80	PES-B	20	-	-	6	1	2	0.2	1	0.5	-	-
Example 4	PES-A	80	PES-B	20	-	-	6	1	2	2	1	0.5	-	-
Example 5	PES-A	80	PES-B	20	-	-	6	1	2	1	1	0.5	-	-
Example 6	PES-A	80	PES-B	20	-	-	6	1	2	1	1	-	-	-
Example 7	PES-A	80	PES-B	20	-	-	6	1	2	1	1	0.5	1	-
Example 8	PES-A	80	PES-B	20	-	-	6	1	2	1	1	0.5	-	-
Example 9	PES-A	85	PES-B'	15	-	-	6	1	2	1	1	0.5	-	-
Example 10	PES-A	90	PES-B'	10	-	-	6	1	2	1	1	0.5	-	-
Example 11	PES-A	85	PES-B'	15	-	-	6	1	2	0.2	1	0.5	-	-
Example 12	PES-A	85	PES-B'	15	-	-	6	1	2	2	1	0.5	-	-
Example 13	PES-A	85	PES-B'	15	-	-	6	1	2	1	1	0.5	-	-
Example 14	PES-A	85	PES-B'	15	-	-	6	1	2	1	1	-	-	-
Example 15	PES-A	85	PES-B'	15	-	-	6	1	2	1	1	0.5	1	-
Example 16	PES-A	85	PES-B'	15	-	-	6	1	2	1	1	0.5	-	-
Com. Ex. 1	PES-A	80	PES-C	20	-	-	6	1	2	-	1	0.5	-	-
Com. Ex. 2	PES-A	80	PES-C	20	-	-	6	1	2	-	1	0.5	-	1
Com. Ex. 3	PES-A	100	-	-	-	-	6	1	2	1	1	0.5	-	-
Com. Ex. 4	PES-A	100	-	-	-	-	6	1	2	-	1	0.5	-	-
Com. Ex. 5	-	-	PES-C	100	-	-	6	1	2	1	1	0.5	-	-
Com. Ex. 6	-	-	PES-C	100	-	-	6	1	2	-	1	0.5	-	-
Com. Ex. 7	PES-A	80	-	-	PES-D	20	6	1	2	1	1	0.5	-	-
Com. Ex. 8	PES-A	80	-	-	PES-D	20	6	1	2	-	1	0.5	-	-

Table 2

	Average particle size of toner (μm)	Average roundness R of toner	Acid value of toner (KOHmg/g)	Average length of crystals (nm)	Coating ratio with external additive(%)	Ratio of free rutile-anatase type titanium oxide (wt%)	$G(0.01)/G(\Delta t)$
Example 1	7.5	0.96	0.8	500	160	1.2	2.8
Example 2	7.5	0.96	0.8	400	160	1.4	3.7
Example 3	7.5	0.96	0.8	500	120	0.8	2.8
Example 4	7.5	0.96	0.8	500	220	2.0	2.8
Example 5	7.5	0.96	0.8	500	150	3.0	2.8
Example 6	7.5	0.96	0.8	500	150	1.2	2.8
Example 7	7.5	0.96	0.8	500	190	1.2	2.8
Example 8	7.5	0.96	0.8	500	160	2.2	2.8
Example 9	7.5	0.96	0.8	600	160	1.0	2.5
Example 10	7.5	0.97	0.8	500	160	1.3	3.9
Example 11	7.5	0.96	0.8	600	120	0.7	2.6
Example 12	7.5	0.96	0.8	600	220	1.8	2.4
Example 13	7.5	0.96	0.8	600	150	2.5	2.5
Example 14	7.5	0.96	0.8	600	150	1.1	2.6
Example 15	7.5	0.96	0.8	600	190	1.1	2.4
Example 16	7.5	0.96	0.8	600	160	1.9	2.5
Com. Ex. 1	7.5	0.96	0.8	500	110	-	3.7
Com. Ex. 2	7.5	0.96	0.8	500	160	-	3.7
Com. Ex. 3	7.5	0.98	0.6	-	160	1.5	9.5
Com. Ex. 4	7.5	0.98	0.6	-	110	-	9.5
Com. Ex. 5	7.5	0.95	0.7	1000	160	1.5	2.2
Com. Ex. 6	7.5	0.95	0.7	1000	110	-	2.2
Com. Ex. 7	7.5	0.95	0.8	3000	160	1.6	7.8
Com. Ex. 8	7.5	0.95	0.8	3000	110	-	7.8

Table 3

	Temperature range in which good fixation is ensured (°C)	Evaluation of temperature range in which good fixation is ensured	Durability in development	Storage stability	Charging properties			
					Initial charge amount (μC/g)	Charge amount of toner after 1K	Charge amount of toner charged with opposite polarity	Abundance ratio of toner charged with opposite polarity (wt%)
Example 1	130-190	A	A	A	-12	A	A	1.3
Example 2	130-170	B	B	A	-12	A	A	1.5
Example 3	120-190	A	B	A	-15	B	A	2.6
Example 4	140-190	B	A	A	-11	A	A	2.0
Example 5	130-190	A	A	A	-14	A	A	2.5
Example 6	120-190	A	B	A	-10	A	A	2.2
Example 7	140-200	A	A	A	-15	A	A	1.1
Example 8	130-190	A	B	A	-12	A	A	2.1
Example 9	130-210	A	A	A	-11	A	A	1.2
Example 10	120-200	A	B	A	-10	A	A	1.3
Example 11	120-210	A	B	A	-14	B	A	2.4
Example 12	140-210	A	A	A	-11	A	A	2.0
Example 13	130-210	A	A	A	-13	A	A	2.5
Example 14	120-210	A	B	A	-10	A	A	2.1
Example 15	140-220	A	A	A	-14	A	A	1.1
Example 16	130-210	A	B	A	-11	A	A	2.0
Com. Ex. 1	130-170	B	B	A	-12	D	B	3.5
Com. Ex. 2	130-170	B	B	A	-12	D	A	2.8
Com. Ex. 3	120-140	C	C	C	-11	C	B	5.2
Com. Ex. 4	120-140	C	C	C	-11	D	B	8.5
Com. Ex. 5	140-160	C	B	A	-15	B	A	2.8
Com. Ex. 6	140-160	C	B	A	-15	D	B	4.3
Com. Ex. 7	140-170	C	C	B	-13	C	B	3.5
Com. Ex. 8	140-170	C	C	B	-13	D	B	8.2